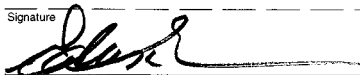
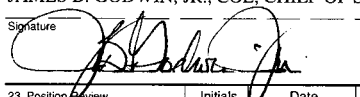


POSITION DESCRIPTION (Please Read Instructions on the Back)										1. Agency Position No. NL11929	
2. Reason for Submission Redescription <input type="checkbox"/> Reestablishment <input type="checkbox"/>		3. Service Hdgrs. <input type="checkbox"/> Field <input checked="" type="checkbox"/>		4. Employing Office Location Orlando, FL		5. Duty Station Orlando, FL		6. OPM Certification No.		9. Subject to IA Action Yes <input type="checkbox"/> No <input type="checkbox"/>	
Explanation (Show any positions replaced)		7. Fair Labor Standards Act Exempt <input checked="" type="checkbox"/> Nonexempt <input type="checkbox"/>		8. Financial Statements Required Executive Personnel Financial Disclosure <input type="checkbox"/> Employment and Financial Interests <input type="checkbox"/>		10. Position Status Competitive <input checked="" type="checkbox"/> Excepted (Specify in Remarks) <input type="checkbox"/> SES (Gen.) <input type="checkbox"/> SES (CR) <input type="checkbox"/>		11. Position is: Supervisory <input type="checkbox"/> Managerial <input checked="" type="checkbox"/> Neither <input type="checkbox"/>		12. Sensitivity 1 - Non-Sensitive <input type="checkbox"/> 2 - Noncritical Sensitive <input type="checkbox"/> 3 - Critical Sensitive <input checked="" type="checkbox"/> 4 - Special Sensitive <input type="checkbox"/>	
13. Competitive Level Code 1434/1440/1441		14. Agency Use									
15. Classified/Graded by		Official Title of Position				Pay Plan		Occupational Code		Grade	
a. U.S. Office of Personnel Management											
b. Department, Agency or Establishment		Interdisciplinary									
c. Second Level Review		Computer Engineer, Electronics									
d. First Level Review		Engineer, Computer Scientist				GS		0855/0854		14	
e. Recommended by Supervisor or Initiating Office								1550			
16. Organizational Title of Position (if different from official title)						17. Name of Employee (if vacant, specify)					
18. Department, Agency, or Establishment DEPARTMENT OF THE ARMY (DA)						c. Third Subdivision DIR FOR RESEARCH & ENGINEERING MGMT (E)					
a. First Subdivision US ARMY MATERIEL COMMAND (AMC)						d. Fourth Subdivision					
b. Second Subdivision SIM, TRNG & INST COMMAND (STRICOM)						e. Fifth Subdivision					
Employee review - This is an accurate description of the major duties and responsibilities of my position.						Signature of Employee (optional)					
20. Supervisory Certification. I certify that this is an accurate statement of the major duties and responsibilities of this position and its organizational relationships, and that the position is necessary to carry out Government functions for which I am responsible. This certification is made with the						knowledge that this information is to be used for statutory purposes relating to appointment and payment of public funds, and that false or misleading statements may constitute violations of such statutes or their implementing regulations.					
a. Typed Name and Title of Immediate Supervisor EDWIN A. TRIER, DIR FOR RES & ENGR MGMT						b. Typed Name and Title of Higher-Level Supervisor or Manager (optional)					
Signature  Date 4/24/00						Signature _____ Date _____					
21. Classification/Job Grading Certification. I certify that this position has been classified/graded as required by Title 5, U.S. Code, in conformance with standards published by the U.S. Office of Personnel Management or, if no published standards apply directly, consistently with the most applicable published standards.						22. Position Classification Standards Used in Classifying/Grading Position USOPM PCS GS-0854, Jan 88; USOPM PCS GS 0855 Feb 71; GS-1550; USOPM PCS GEG for nonsupervisory Professional Engineering Positions					
Typed Name and Title of Official Taking Action JAMES B. GODWIN, JR., COL, CHIEF OF STAFF						Information for Employees. The standards, and information on their application, are available in the personnel office. The classification of the position may be reviewed and corrected by the agency or the U.S. Office of Personnel Management. Information on classification/job grading appeals, and complaints on exemption from FLSA, is available from the personnel office or the U.S. Office of Personnel Management.					
Signature  Date 7 Jul 00											
23. Position Review		Initials		Date		Initials		Date		Initials	
a. Employee (optional)											
b. Supervisor											
c. Classifier											
24. Remarks Position is at full performance level. US: 7777											
25. Description of Major Duties and Responsibilities (See Attached)											

Previous Edition Usable

OF 8 (Rev. 1-85)
U.S. Office of Personnel Management
FPM Chapter 295 USAPPC V1.00

INTRODUCTION

Position is located in the Directorate for Research and Engineering Management (E) of Simulation, Training and Instrumentation Command (STRICOM), a major subordinate command of the U.S. Army Materiel Command (AMC). The mission of STRICOM is to provide centralized management and direction for all research, development, acquisition and fielding of army training devices; simulations and simulators; major test instrumentation; targets and threat simulators; and distributed interactive simulations. The Commander centrally directs, coordinates and supports the materiel development, acquisition and sustainment activities through the functional/matrix organization and four project managers.

Incumbent of this position serves as the senior synthetic environment engineer for STRICOM. Position requires coordination with the Commanding General, Deputy to the Commander, STRICOM Project Managers and Directors as well as higher headquarters, other AMC Commands, Training and Doctrine Command (TRADOC), other Army and DoD organizations and private industry.

MAJOR DUTIES

Directs STRICOM's technology program in the area of synthetic environment development, representation and interoperability to include terrain databases, physical environment modeling and weather effects modeling and representation. Develops and oversees the implementation of long range technology development plans in the synthetic environment area in support of future modeling and simulation programs. Supports the Director's objective to maintain continuous surveillance of engineering technology, trends and standards with regard to modeling and simulation efforts to ensure the Command is positioned competitively in a market where investment funding is carefully scrutinized. Coordinates with other AMC and Department of Defense (DOD) organizations on synthetic environment technology programs/initiatives and makes recommendations to the Command on technology initiatives that STRICOM should pursue. 40%

Supports STRICOM Project Managers during concept formulation, development, production, fielding and post deployment phases of the acquisition life cycle in the area of synthetic environment. Provides technical oversight and direction for the development, representation and interoperability of Synthetic Natural Environments (SNE) for live, virtual and constructive modeling and simulation systems. Coordinates with the STRICOM Program Managers/Project Directors and matrix organization to ensure that SNE issues have been appropriately considered in the acquisition plans for projects assigned to STRICOM. Provides the link between the technology investments in the SNE area and potential future needs of STRICOM's acquisition programs. Leads the Directorate's Synthetic Environment Functional band and with its members, develops guidance, policies and procedures associated with the performance specifications, reusability, standards and interoperability of synthetic environment products. 40%

Serves as the principal synthetic environment engineering expert and consultant to the Commander. Provides technical advisory services to personnel within and outside the Command. Serves as subject matter expert in a variety of specialty areas including database formats for visual/sensor simulation; geographic information systems; mapping, charting, geodesy, and imagery (MCG&I) source data; human sensory simulation; SNE interchange issues

and impacts of SNE databases on simulation system interoperability. Resolves SNE-related issues and makes final decisions on controversial technical issues and problems cutting across organizational lines. Maintains high level contact with key military and private industry officials for the purposes of continuous improvement to STRICOM's SNE capability. Represents STRICOM at SNE-related meetings and conferences with representatives of DA and DOD organizations, academia and private industry. 20%

Performs other duties as assigned.

FES FACTORS

Factor 1. Knowledge required by the position

A. Expertise in all areas associated with the development and representation of Synthetic Environments within modeling and simulation and training systems. These include expertise in the design and development of complex modeling and simulation systems, training and instrumentation systems requiring broad knowledge in the fields of electronics engineering, computer engineering and software engineering. Specific required knowledges include geographic information systems; mapping, charting, geodesy, and imagery (MCG&I) source data; terrain database modeling systems; terrain data base formats; Synthetic Environment Data Representation & Interchange Specification (SEDRIIS); atmospheric/ocean model representations; environmental/weather effects models; and image generation and display systems. This expertise is necessary to effectively direct STRICOM's technology investment in the SNE area, and to appropriately support STRICOM's ongoing as well as future modeling and simulation system acquisitions.

B. Broad expertise in software acquisition management, software development methodologies and software engineering processes in order to effectively support STRICOM's system acquisitions which are mostly software-intensive systems.

C. Experience applying Department of Defense (DOD) materiel acquisition processes to support the acquisition of simulations, simulators, training systems and instrumentation projects. Specifically the DOD 5000 series of regulations, AMC materiel acquisition practices, TRADOC requirements generation process, and STRICOM acquisition processes. This expertise is required to effectively support Project Managers over the whole acquisition lifecycle of the STRICOM simulation, training and instrumentation systems.

D. Extensive knowledge and demonstrated expertise in applying current and evolving engineering technology required to perform market surveys, risk analysis, trade-off studies, cost estimates and reliability, availability, maintainability (RAM) analysis and to provide technical advice on the conceptual design of simulations, simulators, training systems and instrumentation systems required to support complex military equipment or systems.

E. Ability to effectively communicate, both orally and in writing, to a wide range of audiences, issues relating to STRICOM's technology investment strategy in the SNE area and how it supports ongoing as well as future modeling and simulation systems. Ability to interact well with customers within and outside STRICOM, management and team members.

Factor 2. Supervisory Controls

Incumbent works under general supervision of the Director. Incumbent exercises broad authority for technical decisions, planning and administering assigned responsibilities and managing resources. Recommendations made by the incumbent are accepted as authoritative. Work is reviewed in terms of overall effectiveness and attainment of objectives.

Factor 3. Guidelines

Guidelines consist of broad command policies and directives, and/or general policies and regulations from higher headquarters or other commands/services. Guidelines are typically very broad, usually not directly applicable to on-going actions and require significant judgement and discretion by the incumbent to provide effective application to STRICOM and to develop detailed guidance for the STRICOM organizational elements for all SNE-related issues.

Factor 4. Complexity

The incumbent deals with new and emerging SNE-related technologies and must frequently develop new and innovative approaches to solve a variety of technical problems. As a widely-recognized authority in the area of SNE, incumbent must coordinate and direct efforts of industry, academia as well as DoD partners to address such issues of high complexity as the reduction in time and cost it takes to generate large terrain databases for virtual systems. Incumbent advises engineers, scientists, logisticians, analysts, contract specialists and private industry contractors on related state-of-the-art SNE technologies and standards.

Factor 5. Scope and Effect

Incumbent is the focal point for managing and directing an effective SNE technology program for STRICOM in support of the acquisition and fielding of modeling and simulation systems, ensuring interoperability with other systems including C4I systems. Incumbent effectively coordinates requirements of future modeling and simulation systems in the SNE area, and thru partnering with industry, academia and DoD, develops and executes a technology investment plan addressing the key challenges in this area. Failure to accomplish objectives would result in continued large costs of SNE products such as terrain databases and limited reuse of these products across systems.

Factor 6. Personal Contacts

Contacts are with high level management, private industry contractors and other professionals within and outside of the agency. Contacts also include representatives of domestic and foreign governments.

Factor 7. Purpose of Contacts

The purpose of contacts is to coordinate work efforts, resolve controversial questions and issues related to projects, and persuade others to adopt new technical approaches and expend resources.

Factor 8. Physical Demands

The work is primarily sedentary.

Factor 9. Work Environment

The work is primarily performed in an office setting.

Incumbent must be able to obtain and maintain a top secret clearance. Subject to drug testing IAW regulatory guidance.

J.D. 12 June 01

CRITICAL ACQUISITION POSITION AMENDMENT TO PD# NL 11029

"This is a Critical Acquisition Position. Unless specifically waived by the appropriate Army official, the following are statutory requirements (Reference: 10 U.S.C. 1733 - 1737):

- Selectee must be qualified for Acquisition Corps membership at the time of selection or possess a waiver.

- Selectee must execute, as a condition of appointment, a written agreement to remain in federal service in this position for at least 3 years. In signing such an agreement, the employee does not forfeit any employment rights, nor does such an agreement alter any other terms or conditions of employment."